

=====

Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=5; hr=11; min=18; sec=18; ms=681;]

=====

Reviewer Comments:

<210> 2

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide - Control peptide

<400> 2

Arg Pro Val Lys Val Thr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu

1 5 10 15

Ala Phe Pro Leu Glu Phe

20

The above <223> response states "synthetic oligonucleotide"--"synthetic" is acceptable, but this sequence is not an oligonucleotide.

<210> 7

<211> 210

<212> PRT

<213> synthetic peptide - Artificial Sequence

<220>

<223> derived from beta clamp of E. coli DNA polymerase III

<400> 7

Leu Asn Gly Met Leu Phe Glu Thr Glu Gly Glu Glu Leu Arg Thr Val
1 5 10 15

Ala Thr Asp Gly His Arg Leu Ala Val Cys Ser Met Pro Ile Gly Gln
20 25 30

Ser Leu Pro Ser His Ser Val Ile Val Pro Arg Lys Gly Val Ile Glu
35 40 45

Leu Met Arg Met Leu Asp Gly Gly Asp Asn Pro Leu Arg Val Gln Ile
50 55 60

Gly Ser Asn Asn Ile Arg Ala His Val Gly Asp Phe Ile Phe Thr Ser
65 70 75 80

Lys Leu Val Asp Gly Arg Phe Pro Asp Tyr Arg Arg Val Leu Pro Lys
85 90 95

Asn Pro Asp Lys His Leu Glu Ala Gly Cys Asp Leu Leu Lys Gln Ala
100 105 110

Phe Ala Arg Ala Ala Ile Leu Ser Asn Glu Lys Phe Arg Gly Val Arg
115 120 125

Leu Tyr Val Ser Glu Asn Gln Leu Lys Ile Thr Ala Asn Asn Pro Glu
130 135 140

Gln Glu Glu Ala Glu Glu Ile Leu Asp Val Thr Tyr Ser Gly Ala Glu
145 150 155 160

Val Gln Ile Glu Asp Ala Ala Ser Gln Ser Ala Ala Tyr Val Val Met
195 200 205

Also, although the above <211> response is "210," only 208 amino acids are in the sequence.

Application No: 10561867 Version No: 2.0

Input Set:

Output Set:

Started: 2008-07-31 12:18:47.821
Finished: 2008-07-31 12:18:48.224
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 403 ms
Total Warnings: 5
Total Errors: 1
No. of SeqIDs Defined: 7
Actual SeqID Count: 7

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
E 331	Count of Protein differs from the <211> tag Input: 210

SEQUENCE LISTING

<110> CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
 BURNOUF, Dominique, Yves, Joel
 WAGNER, Jerome, Edouard
 DUMAS, Philippe
 FUJII, Shingo
 FUCHS, Robert, Pierre, Paul
 OLIERIC, Vincent

<120> PROTEIN CRYSTAL COMPRISING THE PROCESSIVITY CLAMP FACTOR OF DNA
 POLYMERASE AND A LIGAND, AND ITS USES

<130> 0508-1147

<140> 10561867

<141> 2008-07-31

<150> PCT/EP2004/006942

<151> 2004-06-25

<150> EP 03291596.9

<151> 2003-06-27

<160> 7

<170> PatentIn version 3.5

<210> 1

<211> 16

<212> PRT

<213> Escherichia coli

<400> 1

Val	Thr	Leu	Leu	Asp	Pro	Gln	Met	Glu	Arg	Gln	Leu	Val	Leu	Gly	Leu
1				5					10					15	

<210> 2

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide - Control peptide

<400> 2

Arg	Pro	Val	Lys	Val	Thr	Pro	Asn	Gly	Ala	Glu	Asp	Glu	Ser	Ala	Glu
1				5					10					15	

Ala	Phe	Pro	Leu	Glu	Phe
					20

<210> 3
 <211> 30
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide - Primer for replication assay

 <400> 3
 gtaaaacgac ggccagtgcc aagcttagtc 30

<210> 4
 <211> 90
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide - Template for replication assay

 <400> 4
 ccatgattac gaattcagtc atcacggcg ccacagacta agcttggcac tggccgtcgt 60

 tttaaacgt cgtgactggg aaaaccctgg 90

<210> 5
 <211> 366
 <212> PRT
 <213> Escherichia coli

 <400> 5

Met Lys Phe Thr Val Glu Arg Glu His Leu Leu Lys Pro Leu Gln Gln
 1 5 10 15

Val Ser Gly Pro Leu Gly Gly Arg Pro Thr Leu Pro Ile Leu Gly Asn
 20 25 30

Leu Leu Leu Gln Val Ala Asp Gly Thr Leu Ser Leu Thr Gly Thr Asp
 35 40 45

Leu Glu Met Glu Met Val Ala Arg Val Ala Leu Val Gln Pro His Glu
 50 55 60

Pro Gly Ala Thr Thr Val Pro Ala Arg Lys Phe Phe Asp Ile Cys Arg
 65 70 75 80

Gly Leu Pro Glu Gly Ala Glu Ile Ala Val Gln Leu Glu Gly Glu Arg
 85 90 95

Met	Leu	Val	Arg	Ser	Gly	Arg	Ser	Arg	Phe	Ser	Leu	Ser	Thr	Leu	Pro	100	105	110
Ala	Ala	Asp	Phe	Pro	Asn	Leu	Asp	Asp	Trp	Gln	Ser	Glu	Val	Glu	Phe	115	120	125
Thr	Leu	Pro	Gln	Ala	Thr	Met	Lys	Arg	Leu	Ile	Glu	Ala	Thr	Gln	Phe	130	135	140
Ser	Met	Ala	His	Gln	Asp	Val	Arg	Tyr	Tyr	Leu	Asn	Gly	Met	Leu	Phe	145	150	155
Glu	Thr	Glu	Gly	Glu	Glu	Leu	Arg	Thr	Val	Ala	Thr	Asp	Gly	His	Arg	165	170	175
Leu	Ala	Val	Cys	Ser	Met	Pro	Ile	Gly	Gln	Ser	Leu	Pro	Ser	His	Ser	180	185	190
Val	Ile	Val	Pro	Arg	Lys	Gly	Val	Ile	Glu	Leu	Met	Arg	Met	Leu	Asp	195	200	205
Gly	Gly	Asp	Asn	Pro	Leu	Arg	Val	Gln	Ile	Gly	Ser	Asn	Asn	Ile	Arg	210	215	220
Ala	His	Val	Gly	Asp	Phe	Ile	Phe	Thr	Ser	Lys	Leu	Val	Asp	Gly	Arg	225	230	235
Phe	Pro	Asp	Tyr	Arg	Arg	Val	Leu	Pro	Lys	Asn	Pro	Asp	Lys	His	Leu	245	250	255
Glu	Ala	Gly	Cys	Asp	Leu	Leu	Lys	Gln	Ala	Phe	Ala	Arg	Ala	Ala	Ile	260	265	270
Leu	Ser	Asn	Glu	Lys	Phe	Arg	Gly	Val	Arg	Leu	Tyr	Val	Ser	Glu	Asn	275	280	285
Gln	Leu	Lys	Ile	Thr	Ala	Asn	Asn	Pro	Glu	Gln	Glu	Glu	Ala	Glu	Glu	290	295	300
Ile	Leu	Asp	Val	Thr	Tyr	Ser	Gly	Ala	Glu	Met	Glu	Ile	Gly	Phe	Asn	305	310	315
																		320

Val Ser Tyr Val Leu Asp Val Leu Asn Ala Leu Lys Cys Glu Asn Val
325 330 335

Arg Met Met Leu Thr Asp Ser Val Ser Ser Val Gln Ile Glu Asp Ala
340 345 350

Ala Ser Gln Ser Ala Ala Tyr Val Val Met Pro Met Arg Leu
355 360 365

<210> 6
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic peptide - derived from SEQ ID NO 1

<400> 6

Arg Gln Leu Val Leu Gly Leu
1 5

<210> 7
<211> 210
<212> PRT
<213> synthetic peptide - Artificial Sequence

<220>
<223> derived from beta clamp of E. coli DNA polymerase III

<400> 7

Leu Asn Gly Met Leu Phe Glu Thr Glu Gly Glu Glu Leu Arg Thr Val
1 5 10 15

Ala Thr Asp Gly His Arg Leu Ala Val Cys Ser Met Pro Ile Gly Gln
20 25 30

Ser Leu Pro Ser His Ser Val Ile Val Pro Arg Lys Gly Val Ile Glu
35 40 45

Leu Met Arg Met Leu Asp Gly Gly Asp Asn Pro Leu Arg Val Gln Ile
50 55 60

Gly Ser Asn Asn Ile Arg Ala His Val Gly Asp Phe Ile Phe Thr Ser
65 70 75 80

Lys Leu Val Asp Gly Arg Phe Pro Asp Tyr Arg Arg Val Leu Pro Lys

85

90

95

Asn Pro Asp Lys His Leu Glu Ala Gly Cys Asp Leu Leu Lys Gln Ala
100 105 110

Phe Ala Arg Ala Ala Ile Leu Ser Asn Glu Lys Phe Arg Gly Val Arg
115 120 125

Leu Tyr Val Ser Glu Asn Gln Leu Lys Ile Thr Ala Asn Asn Pro Glu
130 135 140

Gln Glu Glu Ala Glu Glu Ile Leu Asp Val Thr Tyr Ser Gly Ala Glu
145 150 155 160

Met Glu Ile Gly Phe Asn Val Ser Tyr Val Leu Asp Val Leu Asn Ala
165 170 175

Leu Lys Cys Glu Asn Val Arg Met Met Leu Thr Asp Ser Val Ser Ser
180 185 190

Val Gln Ile Glu Asp Ala Ala Ser Gln Ser Ala Ala Tyr Val Val Met
195 200 205